

ABSTRACT OF THE DISCLOSURE

A system for improving vision that can diagnose monochromatic aberrations within a subject's eyes, apply the wavefront correction, and then enable the patient to view the results of the correction. The system comprises a laser for producing a beam of light; a corrector; a wavefront sensor; a testing unit; optic means for directing the beam of light to the corrector, to the retina, from the retina to the wavefront sensor, and to the testing unit; and a computer operatively connected to the wavefront sensor and the corrector.